

Notice of Allowability

Application No.

09/903,245

Examiner

Linda Wong

Applicant(s)

BELL, DEBRA M.

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/2/2005.
2. ☒ The allowed claim(s) is/are 1-44.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Viet V. Tong on November 30, 2005.
3. Regarding **claim 18, line 11**, please delete the word "and".
4. Regarding **claim 18, line 12**, after the word "and", please insert -- a plurality of select signals, and wherein the select signals are used to select --.
5. Regarding **claim 28, line 14**, please delete "and".
6. Regarding **claim 28, line 15**, after the word "and", please insert -- a plurality of select signals, and wherein the select signals are used to select--.
7. Regarding **claim 34, line 9**, please delete "shifting signal and" and please insert -- shifting signals and select signals, wherein the select signals are used to select--.
8. Regarding **claim 42, line 10**, please delete "the shifting signals and" and please insert --both the shifting signals and select signals, wherein the select signals are used to select --.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

9. The following is an examiner's statement of reasons for allowance:

Kondo (US Patent No.: 6297680), Oh (US Patent No: 6765976), and Keeth et al (US Patent No.: 6101197) fail to disclose

Regarding **claim 1, lines 9-10, claim 18, line 11-13, claim 28, line 14-16, claim 34, lines 9-10 and claim 42, lines 10-11** "... a logical combination of the plurality of shifting signals and a plurality of select signals, and wherein the select signals are used to select the fine delay applied to the coarse delay signal."

Regarding **claim 7, lines 12-13, claim 23, lines 15-16**, "... a logic circuit responsive to the combination of the plurality of shifting signals and the select signal to enable the coarse delay segment to adjust the coarse delay."

Regarding **claim 11, lines 11-16, claim 24, lines 13-16**, "... a logic circuit to receive the shifting signals and a select signal to enable the coarse delay segment to adjust the coarse delay wherein the coarse segment includes a delay line including a plurality of delay stages for applying the coarse delay to the external clock signal, each of the delay stages includes a delay time, and a controller connected to the logic circuit and the delay line, the controller is configured to enable the delay line to adjust the coarse delay based on the shifting signals and the select signal, and wherein the fine delay segment includes: ... "

Regarding **claims 13,15,16,17, lines 13-15**, "... a logic circuit including inputs connected to the shift register and the phase detector to receive the shifting signals and the select signals to provide coarse adjust signals; ..."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linda Wong whose telephone number is 571-272-6044. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Linda Wong


STEPHEN CHIN
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